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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCEJC759 U.S. PTO
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UTILITY PATENT APPLICATION TRANSMITTAL

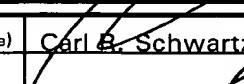
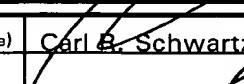
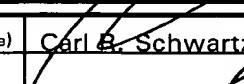
Attorney Docket No. 96-0296-96544

First Inventor or Application Identifier James A. Thomson

Title SERUM FREE CULTIVATION OF PRIMATE EMBRYONIC STEM CELLS

Express Mail Label No. EJ636878508US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS		ADDRESS TO: Assistant Commissioner for Patents Box Patent Application																									
<p>1 <input checked="" type="checkbox"/> Fee transmittal Form (Submit an original and a duplicate for fee processing)</p> <p>2 <input checked="" type="checkbox"/> Specification [Total Pages 17] (preferred arrangement set forth below)</p> <ul style="list-style-type: none"> - Descriptive title of the invention - Cross References to Related Applications - Statement Regarding Fed Sponsored R&D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure <p>3 <input type="checkbox"/> Drawing(s) (35 USC 113) [Total Sheets 1]</p> <p>4. Oath or Declaration [Total Pages 2]</p> <ol style="list-style-type: none"> a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from prior Application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) <p style="text-align: center;">[Note Box 5 below]</p> <ol style="list-style-type: none"> i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> inventor(s) named in prior application, <p>5 <input type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application from under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference herein.</p>		<p>6. <input type="checkbox"/> Microfiche Computer Program (Appendix)</p> <p>7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <ol style="list-style-type: none"> a. <input type="checkbox"/> Computer readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement Verifying identity of above 																									
ACCOMPANYING APPLICATION PARTS																											
<p>8 <input type="checkbox"/> Assignment Papers (cover sheet & documents)</p> <p>9 <input type="checkbox"/> 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney (where there is an assignee)</p> <p>10 <input type="checkbox"/> English Translation Document (if applicable)</p> <p>11 <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations</p> <p>12 <input type="checkbox"/> Preliminary Amendment</p> <p>13 <input checked="" type="checkbox"/> Return receipt postcard (MPEP 503) (Should be specifically itemized)</p> <p>14 <input checked="" type="checkbox"/> *Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application Status still proper and desired</p> <p>15 <input type="checkbox"/> Certified copy of priority Document(s)</p> <p>16 <input type="checkbox"/> Other: * A new statement is required to pay small entity fees, except where</p>																											
17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application no. _____																											
Prior application information: Examiner: _____ Group/Art Unit: _____																											
18. CORRESPONDENCE ADDRESS																											
<input type="checkbox"/> Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label)		or <input checked="" type="checkbox"/> Correspondence address below																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">NAME</td> <td colspan="3">Carl R. Schwartz</td> </tr> <tr> <td>ADDRESS</td> <td colspan="3">Quarles & Brady</td> </tr> <tr> <td>CITY</td> <td>Milwaukee</td> <td>STATE</td> <td>WI</td> </tr> <tr> <td>COUNTRY</td> <td>USA</td> <td>TELEPHONE</td> <td>(414) 277-5715</td> </tr> <tr> <td></td> <td></td> <td>ZIP CODE</td> <td>53202</td> </tr> <tr> <td></td> <td></td> <td>FAX</td> <td>(414) 271-3552</td> </tr> </table>				NAME	Carl R. Schwartz			ADDRESS	Quarles & Brady			CITY	Milwaukee	STATE	WI	COUNTRY	USA	TELEPHONE	(414) 277-5715			ZIP CODE	53202			FAX	(414) 271-3552
NAME	Carl R. Schwartz																										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Name (Print/Type)</td> <td>Carl R. Schwartz</td> <td>Registration No. (Attorney/Agent)</td> <td>29,437</td> </tr> <tr> <td>Signature</td> <td colspan="3"></td> </tr> <tr> <td></td> <td>Date</td> <td colspan="2">March 9, 2000</td> </tr> </table>				Name (Print/Type)	Carl R. Schwartz	Registration No. (Attorney/Agent)	29,437	Signature					Date	March 9, 2000													
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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. MKE\4503474

FEE TRANSMITTAL

for FY 2000

Patent fees are subject to annual revision.
Small Entity payments must be supported by a small entity statement
otherwise large entity fees must be paid. See Forms PTO/SB/09-12

TOTAL AMOUNT OF PAYMENT \$ 423

Complete if Known	
Application Number	
Filing Date	March 9, 2000
First Named Inventor	James A. Thomson
Group Art Unit	---
Examiner Name	---
Attorney Docket Number	960296.96544

METHOD OF PAYMENT (check one)

1. The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 17-0055

Deposit Account Name Quarles & Brady LLP

 Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

2. Payment Enclosed:

 Check Money Order Other

FEE CALCULATION (fees effective 11/10/98)

1. FILING FEE

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
101	690	201	345	Utility filing fee	345
106	310	206	155	Design filing fee	
107	480	207	240	Plant filing fee	
108	760	208	380	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$ 345)

2. CLAIMS

Total Claims	16	-20**=	2	X	39	=	Fee from below	Fee Paid
Independent Claims	5	-3**=						78
Multiple Dependent Claims								

** or number previously paid, if greater. For reissues see below

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20 •
102	78	202	39	Independent claims in excess of 3
104	260	204	130	Multiple dependent claim
109	78	209	39	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 78)

3. ADDITIONAL FEES

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920	112	920	Requesting publication of SIR prior to Examiner action	
113	1,840	113	1,840	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	380	216	190	Extension for reply within second month	
117	870	217	435	Extension for reply within third month	
118	1,360	218	680	Extension for reply within fourth month	
128	1,850	228	925	Extension for reply within fifth month	
119	300	219	150	Notice of Appeal	
120	300	220	150	Filing a brief in support of an appeal	
121	260	221	130	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive unavoidably abandoned application	
141	1,210	241	605	Petition to revive unintentionally abandoned application	
142	1,210	242	605	Utility issue fee (or reissue)	
143	430	243	215	Design issue fee	
144	580	244	290	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))	
149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))	

Other fee (specify) _____
Other fee (specify) _____

SUBTOTAL (3) (\$)

Reduced by Basic Filing Fee Paid

SUBMITTED BY Complete (if applicable)

Typed or Printed Name	Carl R. Schwartz			Reg. Number	29,437
Signature		Date	March 9, 2000	Deposit Account User ID	